CLAIMS

A nerve regeneration-inducing tube, comprising:

a tubular structure (A) made of a biodegradable material or bioabsorbable material including therein a sponge-like matrix (B) made of a biodegradable material or bioabsorbable material and/or a linear nerve inducing channel (C); and

a definite space part formed at one end of the tubular structure (A) .

- 2. The nerve regeneration-inducing tube according to claim 1, wherein a length of the space part is about 1 to 20 mm.
- 3. The nerve regeneration-inducing tube according to claim 1, wherein the biodegradable material comprises a protein, a polypeptide, or a derivative thereof decomposed by a decomposing enzyme in a living organism, acid, or alkali.
- 4. The nerve regeneration-inducing tube according to claim 1, wherein the bioabsorbable material comprises a porous substance which allows permeation of liquid and gas.
- 5. The nerve regeneration-inducing tube according to claim 1, wherein the bioabsorbable material comprises a protein, polypeptide, a derivative thereof, polysaccharide or a derivative thereof, polylactic acid, polyglycolic acid, a copolymer of glycolic acid and lactic acid, a copolymer of lactic acid and ϵ -aminocaproic acid, or aliphatic polyester.
- 6. The nerve regeneration-inducing tube according to claim 1,

wherein the biodegradable material or bioabsorbable material comprises collagen.

- 7. The nerve regeneration-inducing tube according to claim 1, wherein the tubular structure (A) is made of a fibrous material.
- 8. The nerve regeneration-inducing tube according to claim 7, wherein the fibrous material comprises a short fiber, long fiber, filament, floc, textile fabric, or non-woven fabric.
- 9. The nerve regeneration-inducing tube according to claim 1, wherein the sponge-like matrix (B) comprises a collagen sponge.
- 10. The nerve regeneration-inducing tube according to claim 1, wherein the nerve-inducing channel (C) is formed by at least one fiber which is inserted into the tubular structure (A) in a longitudinal direction.
- 11. The nerve regeneration-inducing tube according to claim 1, wherein the nerve-inducing channel (C) is formed by at least one hollow fiber in the tubular structure (A) in the longitudinal direction.
- 12. The nerve regeneration-inducing tube according to claim 1, wherein the nerve-inducing channel (C) penetrates through the sponge-like matrix (B).
- 13. The nerve regeneration-inducing tube according to claim 1, wherein the nerve-inducing channel (C) comprises a fiber or hollow fiber.
- 14. A method of using the nerve regeneration-inducing tube

according to claim 1, comprising:

suturing an end of a central nerve inserted into the space part with the tubular structure (A); and

suturing an end of a peripheral nerve with the end portion devoid of the space part of the tubular structure (A) by means of a bio suture.